

## Patent Claims

1. Arrangement for fixing a guide blade segment that forms part of a transition channel between the housing and the bearing pedestal of a turbine housing of a high-pressure and a low-pressure turbine with aircraft gas turbines having different diameters, preferably a two-shaft aircraft gas turbine, the transition channel of which transitions from the smaller diameter of the high-pressure turbine to the larger diameter of the lower pressure turbine, wherein the guide blade segment comprises an outer and an inner platform tensioning the guide blades, **characterized in that** the platforms (30, 32) for the purpose of axial positioning and sealing of the guide blade segment (16) comprise bars (36, 37), which each enable a straight surface contact with bearing surfaces (35, 38) of the bearing pedestal (21) and the housing (18), in that the guide blade segment (16) by means of an upstream groove-hook-type connection (40, 44) that is assigned to the outer platform (30) is held radially on the housing (18) and secured against rotation by means of a pin (46) that engages in the hook-groove-type connection, and in that the grooves (44) of the groove-hook-type connection are assigned to the bearing surfaces (24) of the housing (18) and the hooks (projections 40) to the outer platform (30) of the guide blade segment (16).
2. Arrangement pursuant to claim 1, **characterized in that** the bearing surfaces (24) of the housing (18) that comprise the grooves (44) of the hook-groove-type connection at the same time form bearing surfaces for the upstream channel segment (14a) of the transition channel (16), which is locked in its installed position by the guide blade segment (16).